BILL NO. S-91-12-37

SPECIAL ORDINANCE NO. S-340-91

AN ORDINANCE approving the awarding of Reference #5016 by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and **PERKIN-ELMER CORPORATION** for the Three Rivers Filtration Plant.

NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA;

SECTION 1. That Reference #5016 between the City of Fort Wayne, by and through its Department of Purchasing and **PERKINS-ELMER CORPORAITON** for the Three Rivers Filtration Plant, respectfully for:

> **the purchase of an atomic absorption spectrometer for the Three Rivers Filtration Plant;**

involving a total cost of Ninety-Nine Thousand Five Hundred Fifty-One and no/100 Dollars ($99,551.00), all as more particularly set forth in said Reference #5016, which is on file in the Office of the Department of Purchasing, and is by reference incorporated herein, made a part hereof, and is hereby in all things ratified, confirmed and approved.

SECTION 2. That this Ordinance shall be in full force and effect from and after its passage and any and all necessary approval by the Mayor.

Council Member

APPROVED AS TO FORM
AND LEGALITY

J. Timothy McCaulay, City Attorney

REFERENCE NO.:	5016
DEPARTMENT:	FILTRATION PL
DATE:	12/10/91
ITEM/SERVICE:	AA SPECTROMETER
ADVERTISED BID:	YES
DATES ADVERTISED:	9/27/91 & 10/4/91
DATE OPENED:	10/17/91
WRITTEN QUOTE:	
DATE DUE:	
VERBAL QUOTE:	
SINGLE SOURCE:	
NO. OF VENDORS NOTIFIED:	7
NO. OF VENDORS RECEIVING BID:	1
NO. OF VENDORS RETURNING BID:	1
NO. OF VENDORS DISQUALIFIED:	0
NO. OF VENDORS NOT RESPONDING:	0
DATE SENT TO DEPT FOR RECOMM:	10/17/91
DATE RECOMM RECEIVED BACK:	11/27/91
DATE SENT TO LAW DEPARTMENT:	11/27/91
INTRODUCTION DATE:	12/10/91
DISCUSSION DATE:	12/17/91
PASSAGE DATE:	1/7/92

REFERENCE NO. 5016
A A UNIT
10/17/91

DESCRIPTION	PERKIN ELMER
AA UNIT W/BURNER	$38,534.80
AUTOSAMPLER FOR FLAME UNIT	INCLUDED
GRAPHITE FURNACE	$35,150.00
AUTOSAMPLER FOR FURNACE	INCLUDED
ELECTRODELESS DISCHARGE LAMP	$3,277.50
AUTOSAMPLER FOR MERCURY	$4,332.00
AUTOMATED MERCURY UNIT	$14,202.50
COMPUTER UNIT	$5,149.00
PRINTER	$718.20
INSTALLATION CHARGES	$1,465.00
90 DAY WARRANTY	INCLUDED
1 YEAR EXTENDED WARRANTY	$2,710.00
TRAINING	$2,820.00
LAMPS	$6,192.00
SUB TOTAL:	$114,551.00
LESS TRADE:	$15,000.00
GRAND TOTAL:	$99,551.00

FRONT PAGE/INVITATION TO BID
DEPARTMENT OF PURCHASING
CITY OF FORT WAYNE, ALLEN COUNTY, INDIANA
ONE MAIN STREET - ROOM 350
PHONE 219-427-1101

BID OPENING DATE 10-17-91 @ 11:00 AM BID REFERENCE # 5016

SEALED BIDS SHOULD BE DELIVERED TO DEPARTMENT OF PURCHASING, ROOM 350, CITY-COUNTY BUILDING UP TO 11:00 A.M. ON OR BEFORE OPENING DATE.

SEALED BIDS WILL BE OPENED PUBLICLY AT 11:01 A.M. IN THE BOARD OF WORKS & SAFETY CONFERENCE ROOM ON THE THIRD FLOOR OF THE CITY-COUNTY BUILDING. "NO LATE BIDS WILL BE ACCEPTED AFTER 11:00 A.M. FOR ANY REASON WHATSOEVER".

THIS INVITATION FOR BID IS FOR AUTOMATED ATOMIC ABSORPTION UNIT SYSTEM PER SPECIFICATIONS

AND REQUESTED BY THREE RIVERS FILTRATION PLANT

THIS BID REQUIRES A XXX 5% BID BOND, CERTIFIED OR CASHIER'S CHECK OF ALL BIDDERS.

THIS BID REQUIRES A XXX 100% PERFORMANCE BOND OF SUCCESSFUL BIDDER(S).

PROMPT PAYMENT DISCOUNTS WILL BE ALLOWED AS FOLLOWS: 0 %
IF PAID WITHIN 0 DAYS.

THIS INVITATION IS ISSUED TO ESTABLISH A CONTRACT TO SUPPLY THE CITY OF FORT WAYNE WITH A COMMODITY OR SERVICE IN ACCORDANCE WITH ACCOMPANYING SPECIFICATIONS.

THE EXECUTION HEREOF BY THE BIDDER IS ACCEPTANCE OF ALL TERMS AND CONDITIONS HEREIN AND IN THAT REGARD THE BIDDER AGREES TO BE BOUND BY SAME AND BE BOUND TO THE AMOUNT OF HIS/HER BID FOR A PERIOD OF NINETY (90) DAYS.

FIRM NAME THE PERKIN-ELMER CORPORATION

STREET ADDRESS 9855 CROSSPOINT BVD., SUITE 140

CITY INDIANAPOLIS PHONE # 317/849-2777

BY _____
REPRESENTATIVE SIGNATURE

Prescribed by the State Board of Accounts

Form No. 95 (Revised 1987)

BID, OFFER OR PROPOSAL FOR SALE OR LEASE OF MATERIALS

(Defined at I.C. 36-1-2-9.5)
(Please type or print)

Date: October 10, 1991

1. Governmental Unit: City of Fort Wayne
2. County: Allen County
3. Bidder (Firm): Perkin-Elmer Corporation
   Address: 9855 Crosspoint Blvd., Suite 140
   City/State: Indianapolis, IN 46256
4. Telephone Number: 318/849-2777
5. Agent of Bidder (If applicable): Clyde A. Radel

Pursuant to notices given, the undersigned offers bid(s) to City of Fort Wayne (Governmental Unit) in accordance with the following attachment(s) which specify the class or item number or description, quantity, unit, unit price and total amount.

The contract will be awarded by classes or items, in accordance with specifications. Any changes or alterations in the items specified will render such bid void as to that class or item. Bidder promises that he has not offered nor received a less price than the price stated in his bid for the materials included in said bid. Bidder further agrees that he will not withdraw his bid from the office in which it is filed. A certified check or bond shall be filed with each bid if required, and liability for breach shall be enforceable upon the contract, the bond or certified check or both as the case may be.

Signature of Bidder or Agent

BID OFFER OR PROPOSAL

Attach separate sheet listing each item bid based on specifications published by governing body. Following is an example of the bid format:

Class or Item	Quantity	Unit	Description	Unit Price	Amount
	1	AA System	Per Specifications	120,551	$99,551.00

NON-COLLUSION AFFIDAVIT

STATE OF INDIANA)
HAMILTON) SS:
COUNTY)

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

Perkin-Elmer Corporation
Bidder (Firm)

Signature of Bidder or Agent

Subscribed and sworn to before me this 10th day of October, 1991.

My Commission Expires: 4/9/95

County of Residence: Marion

Notary Public

Linda J. Beatty
Notary Public Printed Name

ACCEPTANCE

There now being sufficient unobligated appropriated funds available, the contracting authority of _____ (Governmental Unit) hereby accepts the terms of the attached bid for classes or items numbered _____ and promises to pay the undersigned bidder upon delivery the price quoted for the materials stipulated in said bid.

Date: _____

Contracting Authority Members:

_____ _____

_____ _____

_____ _____

SPECIFICATIONS
FOR
ATOMIC ABSORPTION UNIT

SCOPE

To provide an automated Atomic Absorption Unit system as described by the following system specifications.

The system components shall meet or exceed the following specifications. Any deviations should be clarified by the bidding vendor as to why their units meet or exceed the given specification.

1. Spectrophotometer

a. Double beam optical system with dual grating monochromator *.

b. Double beam UV/Visible continuum source background corrector for flame operation *.

c. Czerny - Turner design monochromator with 408 nm focal length *.

d. Maximum light dispersion of 0.65 nm/mm in UV range and 1.3 nm/mm in visible range *.

e. Usable wavelength range of 185 nm to 930 nm *.

f. Air-tight photometer for corrosion protection *.

g. Motorized 6 - position lamp turret *.

h. Automatic gas controls with safety interlocks *.

i. Automatic setup and control of wavelength, spectral bandwidth, and slit configuration to method specification *.

j. Automatic gain and intensity control *.

k. Dual monochromator slit height configurations for optimum flame and furnace operation *.

l. Digital electronics *.

2. BURNER SYSTEM

a. Corrosion resistant nebulizer *.

b. Impact bead for air-acetylene operation *.

c. Flow spoiler for nitrous oxide-acetylene operation *.

d. Single slot, 10 cm, titanium burner head for air-acetylene operation *.

e. Single slot, 5 cm, titanium burner head for nitrous oxide-acetylene operation *.

3. GRAPHITE FURNACE

a. Zeeman background correction *.

b. L'vov platform graphite tube capability *.

c. Full wavelength range background correction with optional continuum source correction *.

d. Peak height and Peak area capability *.

e. Heating rate above 2000 C/second *.

f. Photodiode temperature control *.

g. Background correction greater than 2.0 absorbance units *.

h. Built in rollover protection *.

4. AUTOSAMPLER FOR GRAPHITE FURNACE

a. Automatic sample injection *.

b. Automatic multiple injection *.

c. Automatic calibration *.

d. Automatic recalibration during sample run *.

e. Automatic standard addition *.

f. Automatic matrix modification *.

g. Sample tray capacity for at least 40 samples *.

h. Sample injection volume adjustable from 5 to 99 uL *.

i. Require line item quote on cost for furnace autosampler.

5. AUTOSAMPLER FOR FLAME OPERATION

a. Sequential or random access *.

b. Sample tray capacity for at least 54 samples *.

c. Automatic calibration *.
d. Automatic re-calibration during sample run *.

e. Automatic single or multi-element analysis *.

f. Require line item quote on cost for flame autosampler.

6. SYSTEM CONTROLLER ASSEMBLY

a. IBM PS/2 Model 50z computer *.
   1. 60 megabyte hard disk drive.
   2. 1.4 megabyte, 3.5 inch floppy disk drive.
   3. High resolution color display.
   4. Internal system clock.
   5. RS -232C
   6. Parallel and mouse interfaces *.
   7. PC DOS operating system.
   8. Built in graphics controller.
   9. Graphics controller compatible with VGA, EGA, CGA, and MDA.

b. Epson EX-800 printer *.
   1. Parallel interface
   2. 250 CPA draft mode, 60 CPA NLQ mode
   3. 8K print buffer
   4. Friction or tractor feed.
   5. Graphics capability

7. DATA HANDLING

a. Complete accessibility to programming all facets of all instrumentation from single keyboard *.

b. Mouse unit accessory control *.

c. Window menu driven accessory for set up *.

d. Standard conditions availability from hard disk *.

e. QA/QC method storage availability/backup capability *.

f. Program capability for check samples *.

g. Detailed "help" programming *.

h. CRT display of real time curve graphs and analytical results *.

i. Calibration programming with minimum of 8 points potential *.

j. Slope correction of curve via single standard *.

k. Statistics availability of Standard Deviation/Relative Standard Deviation/Average *.

l. Ability to define report format utilizing file server *.

m. Layout capability for direct user specifications allowing customized monitoring of progress *.

n. Capability to assign sample identification number to particular sample *.

o. Continual standard curve updates with each additional standard sampled *.

p. Ability to overlay standard curves for comparison *.

q. Peak graphs accessible for real time viewing or taken from a file server to compare past accuracy to current conditions *.

r. Capability to customize final reports *.

8. ELECTRODELESS DISCHARGE LAMP POWER SUPPLY

a. Dual channel *.

b. Continuous or pulsed operation *.

c. Adjustable power to 30 watts *.

9. LAMPS (SEE ATTACHED LISTING)

10. AUTOMATED MERCURY / HYDRIDE SYSTEM

a. Cell alignment by burner head adjust controls *.

b. Program sequences with selectable time parameters *.

c. Temperature controlled cell assembly from 100 to 1000 C *.

d. Reagent control and analysis shall be fully automated *.

11. MISCELLANEOUS

a. Two complete sets of operation and maintenance manuals, including schematics, to be received with each instrument *.

b. Installation and checkout to be performed by manufacturer's field engineer *.

c. Installation and checkout according to manufacturer's specifications *.

d. Operator familiarization to be conducted during installation and checkout *.

e. Bidder to supply complete system specifications *.

f. Bidder to list all exceptions to purchaser specifications *.

g. Bidder to list cost of warranty - extension agreements *.

12. WARRANTY

a. Period of 90 days for parts with quoted extension to 1 year *.

b. Period of 90 days for labor with quoted extension to 1 year *.

c. Warranty period to begin subject to 30 consecutive days of on site, trouble free system operation *.

13. TRAINING

a. Training for 2 individuals on flame and furnace applications to be given at factory training facilities *.

b. Training to be available anytime within 2 years of beginning warranty period *.

14. TRADE IN ALLOWANCE

a. Request bidder to quote allowance for trade in of PE 2380 A.A. unit and HGA 400 furnace unit.

* = OR DEMONSTRATED EQUIVALENT

LAMP LISTING FOR QUOTATION

LAMP TYPE	DESIGN
ARSENIC	EDL
ALUMINUM	EDL
BARIUM	HCL
CADMIUM	EDL
CALCIUM	HCL
CHROMIUM	HCL
COPPER	HCL
IRON	HCL
LEAD	EDL
MAGNESIUM	HCL
MANGANESE	HCL
MERCURY	EDL
MOLYBDENUM	HCL
NICKEL	HCL
POTASSIUM	EDL
SELENIUM	EDL
SILICA	HCL
SILVER	HCL
SODIUM	HCL
TIN	EDL
ZINC	HCL

LAMP LISTING FOR QUOTATION

QUANTITY	LAMP TYPE	DESIGN	PRICE/UNIT
1	ARSENIC	EDL	$337.50
1	ALUMINUM	EDL	270.00
1	BARIUM	HCL	270.00
1	CADMIUM	EDL	337.50
1	CALCIUM	HCL	270.00
1	CHROMIUM	HCL	270.00
1	COPPER	HCL	270.00
1	IRON	HCL	270.00
1	LEAD	EDL	337.50
1	MAGNESIUM	HCL	270.00
1	MANGANESE	HCL	270.00
1	MERCURY	EDL	337.50
1	MOLYBDENUM	HCL	270.00
1	NICKEL	HCL	270.00
1	POTASSIUM	EDL	337.50
1	SELENIUM	EDL	337.50
1	SILICA	HCL	270.00
1	SILVER	HCL	270.00
1	SODIUM	HCL	270.00
1	TIN	EDL	337.50
1	ZINC	HCL	319.50

Note: Aluminum is availabl
in HCL only.

BID TALLY SHEET FOR ATOMIC ABSORPTION UNIT

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
1	1	A.A. unit with burner unit	$40,540.00	$38,534.80
2	1	autosampler for flame unit	No Charge	(incl. in Item 6 below)
3	1	graphite furnace integrated to the computer unit	37,000.00	35,150.00
4	1	autosampler for furnace	No Charge	(included in Item 3 above
5	1	electrodeless discharge lamp supply dual channel	3,450.00	3,277.50
6	1	autosampler for mercury unit	4,560.00	4,332.00
7	1	automated mercury unit	14,950.00	14,202.50
8	1	computer unit and all associated hardware/software	5,420.00	5,149.00
9	1	printer and all associated hardware	756.00	718.20
10	1	installation charges	1,465.00	1,465.00
11	1	warranties 90 day (list each) 5100PC Computer, Zeeman Module Printer, Autosamplers, FIAS-200, EDL System 2	No Charge	(Included in System Price
12	1	warranties' extention 1 year	2,710.00	2,710.00
13	2	training complete at company	1,410.00	2,820.00
14	1	trade in allowance	-15,000.00	-15,000.00
15	21	lamps as listed	use sheet	6,192.00
16	1	OTHER please list		
17	Total			$99,551.00

PERKIN ELMER

The Perkin-Elmer Corporation
Crosspoint Business Park
9855 Crosspoint Blvd, Suite 140
Indianapolis, IN 46256
Phone: (317) 849-2777
Fax: (317) 849-3284

QUOTATION

To: Department of Purchasing
City of Fort Wayne, Allen County, Indiana
One Main Street - Room 350
Fort Wayne, IN 46802

Quotation No: 2015/1

Page No: 1

Issue Date: 10/01/91

Destination: USA

Your Ref: 5016
Our Ref: 601-1/AA/1/RAD/LJB

From: CLYDE A. RADEL Phone: 317-849-2777
INDIANAPOLIS, IN 46256

Itm	Qty	Part-No	Description	Unit Price	Total Price
1	1	N066-0248	Model 5100 PC Atomic Absorption Spectrometer with burner/gas controls, motorized lamp turret, background correction and optical interface. Operating at 115 volts, and 60 hertz. The Model 5100 PC is designed for optimized flame, graphite furnace and mercury/hydride analyses. It also includes a high light throughput, double-beam optical system with a dualgrating monochromator. All instrumental and data handling parameters are controlled from the keyboard of a PC DOS or MS DOS based personal computer (PC) with high resolution graphics display, hard disk and floppy disk drive. The 5100 PC system computer provides single keyboard control of wavelength, slit and gas flows. When used with Perkin-Elmer coded light sources, Model 5100 PC will automatically select wavelength, slit and, for hollow cathode lamps, lamp current from lamp coding and internally stored analytical conditions. Model 5100 PC software provides the ability to generate & automatically implement single or sequential multielement methods, including complete control of the optional FIAS-200 Flow Injection System, AS-90 Flame Autosampler, AS-60 or AS-70 Furnace Autosamplers, and HGA-600 Graphite Furnace or 5100ZL Zeeman-corrected Graphite Furnace module. Readout of the Model 5100 PC is linear in absorbance or concentration with continuously variable scale expansion from 0.01 to 99X and		

continued...

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QUOTATION

Quotation No: 2015/1

Itm	Qty	Part-No	Description	Unit Price	Total Price

absorbance readings up to 2A. Display times are operator-selectable from 0.1 to 50 seconds in increments of 0.1 second. Peak area and peak height measurement modes are standard. Statistics are included with the ability to take up to 99 readings.

The Model 5100 PC includes automatic zero calibration and concentration calibration with up to eight standards based on operator or automatic selection of a linear least squares fit, a two-coefficient equation, or a three-coefficient equation; or operator selection of a standard additions method or a standard additions calibration method. The Model 5100 PC has the ability to reslope the calibration curve with a single operator-selected standard; automatic gain control; and, with the optional UV/VIS Continuum Source Background Corrector, automatic intensity control.

Graphic display of the calibration plot or atomization peaks is provided in appropriate modes, with manual or automatic rescaling of the absorbance axis and display of both the corrected atomic absorption signal and the background corrector is used. Analytical data, including graphic displays, can be automatically stored to disk as generated and recalled later for redisplay, comparison of analytical results, use in report generation etc. Detailed error messages are provided.

The Model 5100 PC's premix dual-option burner system accommodates a flow spoiler and or impact bead, both of which are included. The Ryton plastic burner chamber is angled for proper drainage. For safety, separate fuel and oxidant gas lines are included. The burner mount is adjustable in all directions. The burner mount is a quick-change type to simplify changeover between burner and

continued...

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QUOTATION

Quotation No: 2015/1

Itm	Qty	Part-No	Description	Unit Price	Total Price
			furnace operation. Also included is an adjustable stainless steel nebulizer and an all-titanium, 10-cm single slot burner head for air-acetylene operation. The Model 5100 PC's Computer Gas Controls allows all flame parameters to be selected from the computer. Safety features include automatic flame ignition, automatic sequencing of gases when lighting or extinguishing a nitrous oxide-acetylene flame, burner head interlocks, flame sensing, pressure sensing, flow ratio sensing and a burner drain interlock. The Model 5100 PC also includes a motorized six lamp turrett, facility for direct connection of an optional printer for retention of analytical data and selected spare part. Service Installation required.	39,140.00	39,140.00
2	1	0303-0404	CORR RESIST NEBULIZER ASSY	470.00	470.00
3	1	0040-0277	NITROUS OXIDE BURNER HEAD	585.00	585.00
4	1	0047-0652	AIR DRYER FILTER MICROCOMPTR	345.00	345.00
5	1	B050-5135	5100 ZL ZEEMAN FURNACE MODULE + OPT (Single Phase, 208-240V, 60 Hz. Includes Fume Extraction and Cooling Systems.) The 5100 ZL Zeeman Furnace Module includes a complete transversely-heated graphite atomizer (THGA) system with longitudinal Zeeman effect background correction. The module also includes an AS-70 Furnace Autosampler and the optical components required to connect the module to the Model 5100 PC via the spectrometer's optical interface, which allows quick changeover between the kinematically mounted 5100 ZL Module and standard 5100 PC operation. The transversely-heated graphite furnace		

continued...

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QUOTATION

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Itm	Qty	Part-No	Description	Unit Price	Total Price

provides exceptional temperature uniformity over the entire length of the graphite tube. A L'vov type platform and electrical contacts are integrated with the graphite tube for enhanced performance and simplified operation. Optimized Stabilized Temperature Platform Furnace (STPF) operating conditions are maintained for all elements.

Longitudinal Zeeman-effect background correction is included to provide the background correction accuracy and range necessary for optimized use of the Graphite Furnace technique. Zeeman-effect correction is implemented using a longitudinal AC magnet providing an 8 kilogauss (0.8 tesla) magnetic field during the atomization cycle of the furnace. The combined 5100 PC/5100 ZL optical system and wide-range electronics can accommodate combined atomic and background absorption signals up to 5 absorbance units and a net atomic absorption signal up to 3 absorbance units. In the Zeeman mode, true double-beam operation is provided using a single source and light path.

The 5100ZL Module is completely controlled from the Model 5100 PC's system controller and software, including pneumatically-actuated opening and closing of the furnace. Model 5100 PC software allows furnace programs to be included as part of an element file. Setup parameters include temperature, ramp and hold times, internal gas type (normal or alternate) and flow rate, READ start, and Zeeman magnet operation. Baseline Offset Correction (BOC) is automatically performed prior to the atomization step. Rapid furnace heating in the atomization step is obtained by applying maximum power under the control of an automatically calibrated optical temperature sensor.

continued...

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QUOTATION

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Itm	Qty	Part-No	Description	Unit Price	Total Price
			In addition to the power requirements of the Model 5100 PC, the 5100 ZL Zeeman Furnace Module requires a 208-240 V, 50 Hz (3-phase) or 60 Hz (single phase) power line. Total peak power consumption is about 7.7 kVA at a furnace temperature of 2600 degrees C with the Zeeman effect magnet activated. The Zeeman/5100 Furnace Module is shipped with a start-up supply of pyrolytically coated graphite tubes with an integral L'vov platform and graphite contact cylinders. Circulatory Cooling System maintains the THGA furnace at optimum operating conditions without the need for an external source of cooling water. Computer-controlled Automatic Fume Extraction System quickly and efficiently removes all vapors and materials expelled from the THGA furnace during drying and sample pretreatment stages. NOTE: The 5100 ZL Zeeman Furnace Module is an add-on option for the Model 5100 PC AA Spectrometer which includes the AS-70 Furnace Autosampler. A complete Model 5100 PC system for Zeeman effect-corrected furnace analysis requires a Model 5100 PC spectrometer with optical interface, a 5100 ZL Zeeman Furnace Module, an appropriately configured controller assembly, Model 5100 PC operating software which is specific for the controller assembly used, a printer for data logging and report generation. Service installation is required.	37,000.00	37,000.00
6	1	B018-4273	AS-90 AUTOSAMPLER FOR THE FIAS-200. Computer controlled autosampler for flame and FIAS-200 flow injection atomic spectrometry. Automates instrument calibration and sample introduction. Sample tray is easily interchanged with optional trays providing 144-, 98-, or 36-		

continued...

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Itm	Qty	Part-No	Description	Unit Price	Total Price
			sample positions. Each sample tray also provides 8 positions for standard solutions and 1 position for a 250-mL wash vessel. One 98-position sample tray is included with the AS-90. Also included are PTFE sampling probes, capillary tubing, 125 15-mL sample vessels, and a 250-mL wash vessel. The AS-90 is electrically supplied from the FIAS-200. Service installation is required but is not included in the price of the AS-90.	4,560.00	4,560.00
7	1	N066-0256	MODEL 5100 PC AND ZEEMAN/5100 PC CONTROLLER ASSEMBLY for 115 V, 60 Hz. Includes a DEC DECstation 316SX Computer with a 40 Mbyte hard disk drive and a 1.4 Mbyte 3.5-inch floppy disk drive; VGA graphics card and a VGA color CRT display; Intel 80386SX microprocessor with 1 Mbyte RAM memory; internal system clock; IEEE-488 (GPIB), RS-232C (serial), and parallel interfaces; MS DOS operating system; and GW BASIC programming language. Also includes Model 5100 PC software assembly specific for the DECstation 316SX (or IBM PC-AT or Epson Equity III+ computers), a mouse pointer, and Model 5100 PC instruction manuals. Requires but does not include an Epson-compatible printer and parallel interface connecting cable for hard copy display of results and graphics. Service installation is recommended.	5,420.00	5,420.00
8	1	0942-1018	PRINTER-OKIDATA 320 120V	725.00	725.00
9	1	0941-0001	Parallel Printer Cable. Connects Centronics-compatible printers to personal computer.	31.00	31.00
10	1	0303-0952	EDL SYSTEM 2, 60HZ -NT	3,450.00	3,450.00
11	1	N305-0605	EDL SYS 2 AS	375.00	375.00

continued...

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Itm	Qty	Part-No	Description	Unit Price	Total Price
12	1	N066-1290	AL ALUMINUM HCL CODED	300.00	300.00
13	1	N066-1237	BA BARIUM HCL CODED	300.00	300.00
14	1	ASPE-CIAL	Cadmium EDL System 2 Lamp.	375.00	375.00
15	1	N066-1293	CA CALCIUM HCL CODED	300.00	300.00
16	1	N066-1297	CR CHROMIUM HCL CODED	300.00	300.00
17	1	N066-1296	CU COPPER HCL CODED	300.00	300.00
18	1	N066-1298	FE IRON HCL CODED	300.00	300.00
19	1	ASPE-CIAL	Lead EDL System 2 Lamp.	375.00	375.00
20	1	N066-1292	MG MAGNESIUM HCL CODED	300.00	300.00
21	1	N066-1294	MN MANGANESE HCL CODED	300.00	300.00
22	1	ASPE-CIAL	Mercury EDL System 2 Lamp.	375.00	375.00
23	1	N066-1225	MO MOLYBDENUM HCL CODED	300.00	300.00
24	1	N066-1207	NI NICKEL HCL CODED	300.00	300.00
25	1	ASPE-CIAL	Potassium EDL System 2 Lamp.	375.00	375.00
26	1	N305-0672	EDL SYS 2 SE	375.00	375.00
27	1	N066-1204	SI SILICON HCL CODED	300.00	300.00
28	1	N066-1281	AG SILVER HCL CODED	300.00	300.00
29	1	N066-1203	NA SODIUM HCL CODED	300.00	300.00
30	1	ASPE-CIAL	Tin EDL System 2 Lamp.	375.00	375.00
31	1	N066-1295	ZN ZINC HCL CODED	355.00	355.00

continued...

PERKIN ELMER

The Perkin-Elmer Corporation
Crosspoint Business Park
9855 Crosspoint Blvd, Suite 140
Indianapolis, IN 46256
Phone: (317) 849-2777
Fax: (317) 849-3284

QUOTATION

Quotation No: 2015/1

Itm	Qty	Part-No	Description	Unit Price	Total Price
32	1	B019-6840	FIAS-200 FLOW INJECTION ANALYSIS (FIA) SYSTEM for use with flame and mercury/hydride AA with Perkin Elmer atomic absorption spectrometer Models 5100 PC, Zeeman/5100 PC (with flame sampling option), 2100, or 1100B. 115/230 V, 50/60 Hz. Service installation is required but is not included in the price of the FIAS-200. Includes two independently-controlled (0-120 rpm) peristaltic pumps, each capable of pumping solution via 8 separate lines; FIA switching valve with interchangeable sample loops; FIA Chemifold mixing manifold with gas/liquid separator; quartz cell and cell heating assembly; microcomputer electronics with RS-232C and IEEE interfaces; IEEE connecting cable; five built-in programmable contact closures for the control of external devices; reagent, sample, and waste containers; and all required tubing, adapters and manuals.	11,900.00	11,900.00
33	1	B019-1090	AMALGAMATION SYSTEM FOR THE FIAS-200. Provides increased sensitivity for the determination of merury by amalgamation of Hg on a Au/Pt gauze. The collected Hg is quantitatively released by a controlled, rapid heating of the gauze. Fully automatic computer-controlled operation with the FIAS-200 is maintained. Service installation is recommended.	3,050.00	3,050.00
34	2	N020-0011	TRAINING-FLAME AA 5100PC-2DAYS	575.00	1,150.00
35	2	N020-0012	TRAINING-GRAPHITE 5100PC-3DAYS	835.00	1,670.00
36	1	N020-7000	INSTALLATION	585.00	585.00
37	1	N020-7000	INSTALLATION	585.00	585.00
38	1	N020-7002	INSTALLATION, HGA6/700/FIAS200	295.00	295.00

continued...

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QUOTATION

Quotation No: 2015/1

Itm	Qty	Part-No	Description	Unit Price	Total Price
39	1	N020-8000	9 MO EXT WARRANTY-5100PC	1,000.00	1,000.00
40	1	N020-8008	9 MO EXT WARRNTY-5100ZL MODULE	750.00	750.00
41	1	N020-8011	9 MO EXT WARRANTY-FIAS200	375.00	375.00
42	1	N020-8012	9 MO EXT WARRANTY-AS90	200.00	200.00
43	1	N020-8017	PE SUPPLIED COMPUTERS-WARRANTY	385.00	385.00

FOB Destination	120,551.00
Less: Trade-in Model 2380,HGA400,EDL	15,000.00-
Less: System Discount	6,000.00-
Total:	99,551.00

Quotation Validity : 01/17/92

Estimated Delivery : 16 Weeks ARO

Terms : Orders subject to credit approval. Payment due upon receipt of invoice.

continued...

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The Perkin-Elmer Corporation
Crosspoint Business Park
9855 Crosspoint Blvd, Suite 140
Indianapolis, IN 46256
Phone: (317) 849-2777
Fax: (317) 849-3284

QUOTATION

Quotation No: 2015/1

Terms and conditions of sales, enclosed

Includes:
Installation
One Year Warranty

CLYDE A. RADEL

SEABOARD SURETY COMPANY

ADMINISTRATIVE OFFICES: BEDMINSTER, NEW JERSEY

PROPOSAL BOND #12

Know all Men by these Presents:

THAT WE, The Perkin - Elmer Corporation

as principal, and SEABOARD SURETY COMPANY, a corporation under the laws of the State of New York, having its principal place of business in the City of New York, New York, as surety, are held and firmly bound unto CITY OF FORT WAYNE, ALLEN COUNTY
PURCHASING DEPARTMENT
ONE MAIN STREET, ROOM 350
FORT WAYNE, IN 46802

as obligee, in the sum of 5% of amount of bid #5016

DOLLARS, lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

SIGNED, sealed and dated this 8th day of October 1991 .

WHEREAS, the said principal is herewith submitting its proposal for
5100 ZL, DEC, F1AS-200, AS-90 with Accessories.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that if the aforesaid principal shall be awarded the contract upon said proposal and shall within the required number of days after the notice of such award enter into a contract and give bond for the faithful performance of the contract, then this obligation shall be null and void; otherwise the principal and surety will pay unto the obligee the difference in money between the amount of the bid of the said principal and the amount for which the obligee may legally contract with another party to perform the said work if the latter amount be in excess of the former; but in no event shall the surety's liability exceed the penal sum hereof.

The Perkin - Elmer Corporation
Principal

By [signature]

SEABOARD SURETY COMPANY

By Caroline Scotto
Caroline Scotto, **Attorney-in-Fact**

Form 136

Certified Copy

No. 11002

SEABOARD SURETY COMPANY

ADMINISTRATIVE OFFICES, BEDMINSTER, NEW JERSEY

LLLL 6919

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That SEABOARD SURETY COMPANY, a corporation of the State of New York, has made, constituted and appointed and by these presents does make, constitute and appoint Maureen J. Richmond or Caroline Scotto or Migdalia Otero or Wendy Zahn or Anthony L. Gagliardi, Jr. or Joan Capparelli or Hillary Baylor or Stacy Montero or J. Holland Or Paula Yip-Ying or Shirley Dewely of New York, New York,

its true and lawful Attorney-in-Fact, **to make, execute and deliver on its behalf insurance policies, surety bonds, undertakings and other instruments of similar nature** as follows: Without Limitations

Such insurance policies, surety bonds, undertakings and instruments for said purposes, when duly executed by the aforesaid Attorney-in-Fact, shall be binding upon the said Company as fully and to the same extent as if signed by the duly authorized officers of the Company and sealed with its corporate seal; and all the acts of said Attorney-in-Fact, pursuant to the authority hereby given, are hereby ratified and confirmed.

This appointment is made pursuant to the following By-Laws which were duly adopted by the Board of Directors of the said Company on December 8th, 1927, with Amendments to and including January 15, 1982 and are still in full force and effect:

ARTICLE VII, SECTION 1:

"Policies, bonds, recognizances, stipulations, consents of surety, underwriting undertakings and instruments relating thereto.

Insurance policies, bonds, recognizances, stipulations, consents of surety and underwriting undertakings of the Company, and releases, agreements and other writings relating in any way thereto or to any claim or loss thereunder, shall be signed in the name and on behalf of the Company

(a) by the Chairman of the Board, the President, a Vice-President or a Resident Vice-President and by the Secretary, an Assistant Secretary, a Resident Secretary or a Resident Assistant Secretary; or (b) by an Attorney-in-Fact for the Company appointed and authorized by the Chairman of the Board, the President or a Vice-President to make such signature; or (c) by such other officers or representatives as the Board may from time to time determine.

The seal of the Company shall if appropriate be affixed thereto by any such officer, Attorney-in-Fact or representative."

IN WITNESS WHEREOF, SEABOARD SURETY COMPANY has caused these presents to be signed by one of its Vice-Presidents, and its corporate seal to be hereunto affixed and duly attested by one of its Assistant Secretaries, this 8th day of March, 1991

SEABOARD SURETY COMPANY 1927 STATE OF NEW YORK

Attest:

(Seal) Diana M Kleeret
Assistant Secretary

SEABOARD SURETY COMPANY

By Michael B Keegan
Vice-President

STATE OF NEW JERSEY
COUNTY OF SOMERSET ss.:

On this 8th day of March, 1991, before me personally appeared Michael B. Keegan a Vice-President of SEABOARD SURETY COMPANY, with whom I am personally acquainted, who, being by me duly sworn, said that he resides in the State of New Jersey; that he is a Vice-President of SEABOARD SURETY COMPANY, the corporation described in and which executed the foregoing instrument; that he knows the corporate seal of the said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto as Vice-President of said Company by like authority.

FELICE M. ZUBRYCKI
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires June 4, 1991

(Seal) NOTARY PUBLIC STATE OF NEW JERSEY

Notary Public

CERTIFICATE

I, the undersigned Assistant Secretary of SEABOARD SURETY COMPANY do hereby certify that the original Power of Attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this Certificate and I do further certify that the Vice-President who executed the said Power of Attorney was one of the Officers authorized by the Board of Directors to appoint an attorney-in-fact as provided in Article VII, Section 1, of the By-Laws of SEABOARD SURETY COMPANY.

This Certificate may be signed and sealed by facsimile under and by authority of the following resolution of the Executive Committee of the Board of Directors of SEABOARD SURETY COMPANY at a meeting duly called and held on the 25th day of March 1970.

"RESOLVED: (2) That the use of a printed facsimile of the corporate seal of the Company and of the signature of an Assistant Secretary on any certification of the correctness of a copy of an instrument executed by the President or a Vice-President pursuant to Article VII, Section 1, of the By-Laws appointing and authorizing an attorney-in-fact to sign in the name and on behalf of the Company surety bonds, underwriting undertakings or other instruments described in said Article VII, Section 1, with like effect as if such seal and such signature had been manually affixed and made, hereby is authorized and approved."

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of the Company to these presents this 8th day of October, 1991

SEABOARD SURETY COMPANY 1927 STATE OF NEW YORK

Joanne M. Curry
Assistant Secretary

Form 957 (Rev. 7/84)

[illegible] the authenticity of this Power of Attorney you may call collect, 201-658-0500 and ask for the Power of Attorney clerk. Please refer to the Power [illegible] above named individual(s) and details of the bond to which the power is attached. In New York, Dial 212-627-5444.

Read the first time in full and on motion by Redd, seconded by Edmonds, and duly adopted, read the second time by title and referred to the Committee on City Utilities (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Common Council Conference Room 128, City-County Building, Fort Wayne, Indiana, on _____, the _____, day of _____, 19____, at _____ o'clock ____ M.,E.S.T.

DATED: 12-10-91

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Burns, seconded by Edmonds, and duly adopted, placed on its passage. PASSED ~~LOST~~ by the following vote:

	AYES	NAYS	ABSTAINED	ABSENT
TOTAL VOTES	9			
BRADBURY	✓			
BURNS	✓			
EDMONDS	✓			
GiaQUINTA	✓			
HENRY	✓			
LONG	✓			
REDD	✓			
SCHMIDT	✓			
TALARICO	✓			

DATED: 12-26-91

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as ~~(ANNEXATION)~~ ~~(APPROPRIATION)~~ ~~(GENERAL)~~ (SPECIAL) ~~(ZONING MAP)~~ ORDINANCE ~~RESOLUTION~~ NO. S-340-91 on the 26th day of December, 19 91

ATTEST:
Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

(SEAL)
Samuel J. Talarico
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 27th day of December, 19 91, at the hour of 1:30 o'clock P.M.,E.S.T.

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 3rd day of January, 19 92, at the hour of 11:55 o'clock A M.,E.S.T.

PAUL HELMKE, MAYOR

DIGEST SHEET

TITLE OF ORDINANCE: Special

DEPARTMENT REQUESTING ORDINANCE: Purchasing

SYNOPSIS OF ORDINANCE: An ordinance approving the award of Ref. No. 5016 for the purchase of an atomic absorption spectrometer for the Three Rivers Filtration Plant. The cost reflects the most responsive vendor.

IF NOT LOWEST, WHO WAS AND WHY WERE THEY NOT AWARDED: 0-91-12-37

EFFECT OF PASSAGE: Used in the testing of materials.

IF REPLACEMENT, WHAT NECESSITATES: The present instrument is 20 years old. It does not produce good quality results. Set up time required for testing is too long. Accuracy of the instrument has proven to be unreliable in EPA evaluation studies. The new instrument will allow for greater quantity of production and complete accuracy, which will be necessary to comply with lead/copper rule.

EFFECT ON NON-PASSAGE: Not purchasing the instrument may result in an additional person being hired to perform extra work to comply with regulations. We will be required to test 34 additional samples every month for lead and copper. In accordance with lead/copper rule, we are required to do this testing by a method that is long and involved (aa furnace). Furnace method is the only EPA approved method. Our present system is not capable of performing furnace work of this degree of accuracy or quantity.

PRIOR APPROVAL REQUESTED: NO DATE:

MONIES INVOLVED: Perkin Elmer $99551.00

PRICE AGREEMENT: YES PURCHASE ORDER:

ACCOUNT INFORMATION: Filtration P1 513-523-B101-4453

BILL NO. S-91-12-37

REPORT OF THE COMMITTEE ON CITY UTILITIES

PAUL M. BURNS, CHAIRMAN
CHARLES B. REDD, VICE CHAIRMAN
EDMONDS, LONG, SCHMIDT

WE, YOUR COMMITTEE ON CITY UTILITIES TO WHOM WAS REFERRED AN (ORDINANCE) ~~(RESOLUTION)~~ approving the awarding of Reference #5016 by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and PERKIN-ELMER CORPORATION for the Three Rivers Filtration Plant

HAVE HAD SAID (ORDINANCE) ~~(RESOLUTION)~~ UNDER CONSIDERATION AND BEG LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID (ORDINANCE) ~~(RESOLUTION)~~

DO PASS	DO NOT PASS	ABSTAIN	NO REC

DATED: 12-19-91.

Sandra E. Kennedy
City Clerk